



LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Tait Environmental Management, Inc.
701 N. Park Center Drive
Santa Ana, CA 92705
ATTN: Mr. Matt Hillman

October 19, 2006

SUBJECT: Boeing Realty Corp., Former C-6 Torrance, Dta Validation

Dear Mr. Hillman,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on October 16, 2006. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 15615:

<u>SDG #</u>	<u>Fraction</u>
IPI0724, IPI0893, IPI1170	Volatiles, Sulfide

The data validation was performed under Tier 1, Tier 2 and Tier 3 guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,


Stella S. Cuenco
Project Manager/Senior Chemist

LDC #15615 (Tait Environmental Management, Inc. / Boeing Realty Corp., Bldg C-6)

[illegible]

Shaded cells indicate Tier III validation (all other cells are Tier II validation). Sample counts do not include MS, MSD, or DUP's.

**Boeing Realty Corp., Bldg C-6
Data Validation Reports
LDC# 15615**

Volatiles

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6

Collection Date: September 8, 2006

LDC Report Date: October 18, 2006

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 1

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPI0724

Sample Identification

TMW_15_WG090806_0001
XMW-09_WG090806_0001
MW006_WG090806_0001
CMW026_WG090806_0001
MW006_WG090806_0001RE1
MW006_WG090806_0001RE2
CMW026_WG090806_0001RE

Introduction

This data review covers 7 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Analysis	Required Holding Time (in Days) From Sample Collection Until Analysis	Flag	A or P
MW006_WG090806_0001RE2	2-Butanone	16	14	J (all detects) UJ (all non-detects)	A

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance data were not reviewed for Tier 1.

III. Initial Calibration

Initial calibration data were not reviewed for Tier 1.

IV. Continuing Calibration

Continuing calibration data were not reviewed for Tier 1.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
6I14007-BLK1	9/14/06	Tetrahydrofuran	5.0 ug/L	TMW_15_WG090806_0001 XMW-09_WG090806_0001 MW006_WG090806_0001

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>10X for common contaminants, >5X for other contaminants) than the concentrations found in the associated method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
MW006_WG090806_0001RE1	2-Butanone	Sample result exceeded calibration range.	Reported result should be within calibration range.	J (all detects)	A

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6
Volatiles - Data Qualification Summary - SDG IPI0724

SDG	Sample	Compound	Flag	A or P	Reason
IPI0724	MW006_WG090806_0001RE2	2-Butanone	J (all detects) UJ (all non-detects)	A	Technical holding times
IPI0724	MW006_WG090806_0001RE1	2-Butanone	J (all detects)	A	Compound quantitation and CRQLs

Boeing Realty Corp., Bldg C-6
Volatiles - Laboratory Blank Data Qualification Summary - SDG IPI0724

No Sample Data Qualified in this SDG

TestAmerica

ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IP10724-08 (TMW_15_WG090806_0001 - Water)					Sampled: 09/08/06				
Reporting Units: ug/l									
Acetone	EPA 8260B	6114007	4.5	10	ND	1	09/14/06	09/14/06	
Benzene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
Bromobenzene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
Bromochloromethane	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Bromodichloromethane	EPA 8260B	6114007	0.30	1.0	ND	1	09/14/06	09/14/06	
Bromoform	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Bromomethane	EPA 8260B	6114007	0.42	1.0	ND	1	09/14/06	09/14/06	
2-Butanone (MEK)	EPA 8260B	6114007	3.8	5.0	ND	1	09/14/06	09/14/06	
n-Butylbenzene	EPA 8260B	6114007	0.37	1.0	ND	1	09/14/06	09/14/06	
sec-Butylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	
tert-Butylbenzene	EPA 8260B	6114007	0.22	1.0	ND	1	09/14/06	09/14/06	
Carbon Disulfide	EPA 8260B	6114007	0.48	1.0	ND	1	09/14/06	09/14/06	
Carbon tetrachloride	EPA 8260B	6114007	0.28	0.50	ND	1	09/14/06	09/14/06	
Chlorobenzene	EPA 8260B	6114007	0.36	1.0	ND	1	09/14/06	09/14/06	
Chloroethane	EPA 8260B	6114007	0.40	2.0	ND	1	09/14/06	09/14/06	
Chloroform	EPA 8260B	6114007	0.33	1.0	3.2	1	09/14/06	09/14/06	
Chloromethane	EPA 8260B	6114007	0.30	2.0	ND	1	09/14/06	09/14/06	
2-Chlorotoluene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
4-Chlorotoluene	EPA 8260B	6114007	0.29	1.0	ND	1	09/14/06	09/14/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6114007	0.92	2.0	ND	1	09/14/06	09/14/06	
Dibromochloromethane	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
1,4-Dichlorobenzene	EPA 8260B	6114007	0.37	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichlorobenzene	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
1,3-Dichlorobenzene	EPA 8260B	6114007	0.35	1.0	ND	1	09/14/06	09/14/06	
Dichlorodifluoromethane	EPA 8260B	6114007	0.79	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichloroethane	EPA 8260B	6114007	0.28	0.50	ND	1	09/14/06	09/14/06	
1,1-Dichloroethane	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,1-Dichloroethene	EPA 8260B	6114007	0.42	1.0	1.4	1	09/14/06	09/14/06	
cis-1,2-Dichloroethene	EPA 8260B	6114007	0.32	1.0	1.6	1	09/14/06	09/14/06	
trans-1,2-Dichloroethene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichloropropane	EPA 8260B	6114007	0.35	1.0	ND	1	09/14/06	09/14/06	
2,2-Dichloropropane	EPA 8260B	6114007	0.34	1.0	ND	1	09/14/06	09/14/06	
cis-1,3-Dichloropropene	EPA 8260B	6114007	0.22	0.50	ND	1	09/14/06	09/14/06	
1,1-Dichloropropene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
trans-1,3-Dichloropropene	EPA 8260B	6114007	0.32	0.50	ND	1	09/14/06	09/14/06	
Ethylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	
Hexachlorobutadiene	EPA 8260B	6114007	0.38	1.0	ND	1	09/14/06	09/14/06	
2-Hexanone	EPA 8260B	6114007	2.6	6.0	ND	1	09/14/06	09/14/06	
Iodomethane	EPA 8260B	6114007	1.0	2.0	ND	1	09/14/06	09/14/06	
Isopropylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

10/18/06

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BOE-C6-0056306



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0724-08 (TMW_15_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	6I14007	0.28	1.0	ND	1	09/14/06	09/14/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6I14007	0.32	1.0	ND	1	09/14/06	09/14/06	
Methylene chloride	EPA 8260B	6I14007	0.70	1.0	0.86	1	09/14/06	09/14/06	J
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I14007	3.5	5.0	ND	1	09/14/06	09/14/06	
n-Propylbenzene	EPA 8260B	6I14007	0.27	1.0	ND	1	09/14/06	09/14/06	
Styrene	EPA 8260B	6I14007	0.16	1.0	ND	1	09/14/06	09/14/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6I14007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I14007	0.24	1.0	ND	1	09/14/06	09/14/06	
Tetrachloroethene	EPA 8260B	6I14007	0.32	1.0	ND	1	09/14/06	09/14/06	
Tetrahydrofuran (THF)	EPA 8260B	6I14007	2.3	10	ND	1	09/14/06	09/14/06	
Toluene	EPA 8260B	6I14007	0.36	1.0	ND	1	09/14/06	09/14/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I14007	0.45	1.0	ND	1	09/14/06	09/14/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I14007	0.48	1.0	ND	1	09/14/06	09/14/06	
1,1,2-Trichloroethane	EPA 8260B	6I14007	0.30	1.0	ND	1	09/14/06	09/14/06	
1,1,1-Trichloroethane	EPA 8260B	6I14007	0.30	1.0	ND	1	09/14/06	09/14/06	
Trichloroethene	EPA 8260B	6I14007	0.26	1.0	18	1	09/14/06	09/14/06	
Trichlorofluoromethane	EPA 8260B	6I14007	0.34	2.0	ND	1	09/14/06	09/14/06	
1,2,3-Trichloropropane	EPA 8260B	6I14007	0.40	1.0	ND	1	09/14/06	09/14/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I14007	0.23	1.0	ND	1	09/14/06	09/14/06	
1,3,5-Trimethylbenzene	EPA 8260B	6I14007	0.26	1.0	ND	1	09/14/06	09/14/06	
Vinyl acetate	EPA 8260B	6I14007	1.7	6.0	ND	1	09/14/06	09/14/06	
Vinyl chloride	EPA 8260B	6I14007	0.26	0.50	ND	1	09/14/06	09/14/06	
Xylenes, Total	EPA 8260B	6I14007	0.90	1.0	ND	1	09/14/06	09/14/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					98 %				
Surrogate: Dibromofluoromethane (80-120%)					99 %				
Surrogate: Toluene-d8 (80-120%)					103 %				

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

C/21806

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BOE-C6-0056307



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IP10724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IP10724-09 (XMW-09_WG090806_0001 - Water)					Sampled: 09/08/06				
Reporting Units: ug/l									
Acetone	EPA 8260B	6114007	4.5	10	ND	1	09/14/06	09/14/06	
Benzene	EPA 8260B	6114007	0.28	1.0	2.0	1	09/14/06	09/14/06	
Bromobenzene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
Bromochloromethane	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Bromodichloromethane	EPA 8260B	6114007	0.30	1.0	0.41	1	09/14/06	09/14/06	J
Bromoform	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Bromomethane	EPA 8260B	6114007	0.42	1.0	ND	1	09/14/06	09/14/06	
2-Butanone (MEK)	EPA 8260B	6114007	3.8	5.0	ND	1	09/14/06	09/14/06	
n-Butylbenzene	EPA 8260B	6114007	0.37	1.0	ND	1	09/14/06	09/14/06	
sec-Butylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	
tert-Butylbenzene	EPA 8260B	6114007	0.22	1.0	ND	1	09/14/06	09/14/06	
Carbon Disulfide	EPA 8260B	6114007	0.48	1.0	ND	1	09/14/06	09/14/06	
Carbon tetrachloride	EPA 8260B	6114007	0.28	0.50	0.61	1	09/14/06	09/14/06	
Chlorobenzene	EPA 8260B	6114007	0.36	1.0	200	1	09/14/06	09/14/06	
Chloroethane	EPA 8260B	6114007	0.40	2.0	ND	1	09/14/06	09/14/06	
Chloroform	EPA 8260B	6114007	0.33	1.0	240	1	09/14/06	09/14/06	
Chloromethane	EPA 8260B	6114007	0.30	2.0	ND	1	09/14/06	09/14/06	
2-Chlorotoluene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
4-Chlorotoluene	EPA 8260B	6114007	0.29	1.0	ND	1	09/14/06	09/14/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6114007	0.92	2.0	ND	1	09/14/06	09/14/06	
Dibromochloromethane	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
1,4-Dichlorobenzene	EPA 8260B	6114007	0.37	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichlorobenzene	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
1,3-Dichlorobenzene	EPA 8260B	6114007	0.35	1.0	ND	1	09/14/06	09/14/06	
Dichlorodifluoromethane	EPA 8260B	6114007	0.79	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichloroethane	EPA 8260B	6114007	0.28	0.50	ND	1	09/14/06	09/14/06	
1,1-Dichloroethane	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,1-Dichloroethene	EPA 8260B	6114007	0.42	1.0	ND	1	09/14/06	09/14/06	
cis-1,2-Dichloroethene	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
trans-1,2-Dichloroethene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichloropropane	EPA 8260B	6114007	0.35	1.0	ND	1	09/14/06	09/14/06	
2,2-Dichloropropane	EPA 8260B	6114007	0.34	1.0	ND	1	09/14/06	09/14/06	
cis-1,3-Dichloropropene	EPA 8260B	6114007	0.22	0.50	ND	1	09/14/06	09/14/06	
1,1-Dichloropropene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
trans-1,3-Dichloropropene	EPA 8260B	6114007	0.32	0.50	ND	1	09/14/06	09/14/06	
Ethylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	
Hexachlorobutadiene	EPA 8260B	6114007	0.38	1.0	ND	1	09/14/06	09/14/06	
2-Hexanone	EPA 8260B	6114007	2.6	6.0	ND	1	09/14/06	09/14/06	
Iodomethane	EPA 8260B	6114007	1.0	2.0	ND	1	09/14/06	09/14/06	
Isopropylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

PC 10/8/06

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BOE-C6-0056308



ANALYTICAL TESTING CORPORATION

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
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Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0724-09 (XMW-09_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Methylene chloride	EPA 8260B	6114007	0.70	1.0	1.3	1	09/14/06	09/14/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6114007	3.5	5.0	ND	1	09/14/06	09/14/06	
n-Propylbenzene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
Styrene	EPA 8260B	6114007	0.16	1.0	ND	1	09/14/06	09/14/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6114007	0.24	1.0	ND	1	09/14/06	09/14/06	
Tetrachloroethene	EPA 8260B	6114007	0.32	1.0	61	1	09/14/06	09/14/06	
Tetrahydrofuran (THF)	EPA 8260B	6114007	2.3	10	ND	1	09/14/06	09/14/06	
Toluene	EPA 8260B	6114007	0.36	1.0	ND	1	09/14/06	09/14/06	
1,2,3-Trichlorobenzene	EPA 8260B	6114007	0.45	1.0	ND	1	09/14/06	09/14/06	
1,2,4-Trichlorobenzene	EPA 8260B	6114007	0.48	1.0	ND	1	09/14/06	09/14/06	
1,1,2-Trichloroethane	EPA 8260B	6114007	0.30	1.0	ND	1	09/14/06	09/14/06	
1,1,1-Trichloroethane	EPA 8260B	6114007	0.30	1.0	ND	1	09/14/06	09/14/06	
Trichloroethene	EPA 8260B	6114007	0.26	1.0	45	1	09/14/06	09/14/06	
Trichlorofluoromethane	EPA 8260B	6114007	0.34	2.0	ND	1	09/14/06	09/14/06	
1,2,3-Trichloropropane	EPA 8260B	6114007	0.40	1.0	ND	1	09/14/06	09/14/06	
1,2,4-Trimethylbenzene	EPA 8260B	6114007	0.23	1.0	ND	1	09/14/06	09/14/06	
1,3,5-Trimethylbenzene	EPA 8260B	6114007	0.26	1.0	ND	1	09/14/06	09/14/06	
Vinyl acetate	EPA 8260B	6114007	1.7	6.0	ND	1	09/14/06	09/14/06	
Vinyl chloride	EPA 8260B	6114007	0.26	0.50	ND	1	09/14/06	09/14/06	
Xylenes, Total	EPA 8260B	6114007	0.90	1.0	ND	1	09/14/06	09/14/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					103 %				
Surrogate: Dibromofluoromethane (80-120%)					100 %				
Surrogate: Toluene-d8 (80-120%)					102 %				

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BOE-C6-0056309



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IP10724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IP10724-10 (MWC006_WG090806_0001 - Water)					Sampled: 09/08/06				
Reporting Units: ug/l									
Benzene	EPA 8260B	6114007	0.28	1.0	37	1	09/14/06	09/14/06	
Bromobenzene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
Bromochloromethane	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Bromodichloromethane	EPA 8260B	6114007	0.30	1.0	ND	1	09/14/06	09/14/06	
Bromoform	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Bromomethane	EPA 8260B	6114007	0.42	1.0	ND	1	09/14/06	09/14/06	
n-Butylbenzene	EPA 8260B	6114007	0.37	1.0	ND	1	09/14/06	09/14/06	
sec-Butylbenzene	EPA 8260B	6114007	0.25	1.0	ND	1	09/14/06	09/14/06	
tert-Butylbenzene	EPA 8260B	6114007	0.22	1.0	ND	1	09/14/06	09/14/06	
Carbon Disulfide	EPA 8260B	6114007	0.48	1.0	1.8	1	09/14/06	09/14/06	
Carbon tetrachloride	EPA 8260B	6114007	0.28	0.50	ND	1	09/14/06	09/14/06	
Chlorobenzene	EPA 8260B	6114007	0.36	1.0	ND	1	09/14/06	09/14/06	
Chloroethane	EPA 8260B	6114007	0.40	2.0	ND	1	09/14/06	09/14/06	
Chloroform	EPA 8260B	6114007	0.33	1.0	42	1	09/14/06	09/14/06	
Chloromethane	EPA 8260B	6114007	0.30	2.0	ND	1	09/14/06	09/14/06	
2-Chlorotoluene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
4-Chlorotoluene	EPA 8260B	6114007	0.29	1.0	ND	1	09/14/06	09/14/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6114007	0.92	2.0	ND	1	09/14/06	09/14/06	
Dibromochloromethane	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
1,4-Dichlorobenzene	EPA 8260B	6114007	0.37	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichlorobenzene	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
1,3-Dichlorobenzene	EPA 8260B	6114007	0.35	1.0	ND	1	09/14/06	09/14/06	
Dichlorodifluoromethane	EPA 8260B	6114007	0.79	1.0	ND	1	09/14/06	09/14/06	
1,2-Dichloroethane	EPA 8260B	6114007	0.28	0.50	83	1	09/14/06	09/14/06	
trans-1,2-Dichloroethene	EPA 8260B	6114007	0.27	1.0	160	1	09/14/06	09/14/06	
1,2-Dichloropropane	EPA 8260B	6114007	0.35	1.0	ND	1	09/14/06	09/14/06	
2,2-Dichloropropane	EPA 8260B	6114007	0.34	1.0	ND	1	09/14/06	09/14/06	
cis-1,3-Dichloropropene	EPA 8260B	6114007	0.22	0.50	ND	1	09/14/06	09/14/06	
1,1-Dichloropropene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
trans-1,3-Dichloropropene	EPA 8260B	6114007	0.32	0.50	ND	1	09/14/06	09/14/06	
Ethylbenzene	EPA 8260B	6114007	0.25	1.0	22	1	09/14/06	09/14/06	
Hexachlorobutadiene	EPA 8260B	6114007	0.38	1.0	ND	1	09/14/06	09/14/06	
2-Hexanone	EPA 8260B	6114007	2.6	6.0	ND	1	09/14/06	09/14/06	
Iodomethane	EPA 8260B	6114007	1.0	2.0	ND	1	09/14/06	09/14/06	
Isopropylbenzene	EPA 8260B	6114007	0.25	1.0	0.34	1	09/14/06	09/14/06	J
p-Isopropyltoluene	EPA 8260B	6114007	0.28	1.0	ND	1	09/14/06	09/14/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6114007	0.32	1.0	ND	1	09/14/06	09/14/06	
Methylene chloride	EPA 8260B	6114007	0.70	1.0	72	1	09/14/06	09/14/06	
n-Propylbenzene	EPA 8260B	6114007	0.27	1.0	ND	1	09/14/06	09/14/06	
Styrene	EPA 8260B	6114007	0.16	1.0	ND	1	09/14/06	09/14/06	

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Project Manager

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BOE-C6-0056310



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IP10724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IP10724-10 (MWC006_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				
Reporting Units: ug/l									
1,1,1,2-Tetrachloroethane	EPA 8260B	6I14007	0.27	1.0	ND	1	09/14/06	09/14/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I14007	0.24	1.0	ND	1	09/14/06	09/14/06	
Tetrachloroethene	EPA 8260B	6I14007	0.32	1.0	0.45	1	09/14/06	09/14/06	J
Tetrahydrofuran (THF)	EPA 8260B	6I14007	2.3	10	86	1	09/14/06	09/14/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I14007	0.45	1.0	ND	1	09/14/06	09/14/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I14007	0.48	1.0	ND	1	09/14/06	09/14/06	
1,1,2-Trichloroethane	EPA 8260B	6I14007	0.30	1.0	64	1	09/14/06	09/14/06	
1,1,1-Trichloroethane	EPA 8260B	6I14007	0.30	1.0	180	1	09/14/06	09/14/06	
Trichlorofluoromethane	EPA 8260B	6I14007	0.34	2.0	ND	1	09/14/06	09/14/06	
1,2,3-Trichloropropane	EPA 8260B	6I14007	0.40	1.0	ND	1	09/14/06	09/14/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I14007	0.23	1.0	0.45	1	09/14/06	09/14/06	J
1,3,5-Trimethylbenzene	EPA 8260B	6I14007	0.26	1.0	ND	1	09/14/06	09/14/06	
Vinyl acetate	EPA 8260B	6I14007	1.7	6.0	ND	1	09/14/06	09/14/06	
Xylenes, Total	EPA 8260B	6I14007	0.90	1.0	190	1	09/14/06	09/14/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					103 %				
Surrogate: Dibromofluoromethane (80-120%)					98 %				
Surrogate: Toluene-d8 (80-120%)					108 %				

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BOE-C6-0056311



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IP10724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IP10724-10RE1 (MWC006_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				
Reporting Units: ug/l									
Acetone	EPA 8260B	6I15004	450	1000	17000	100	09/15/06	09/15/06	
2-Butanone (MEK)	EPA 8260B	6I15004	380	500	100000	100	09/15/06	09/15/06	E
1,1-Dichloroethane	EPA 8260B	6I15004	27	100	890	100	09/15/06	09/15/06	
1,1-Dichloroethene	EPA 8260B	6I15004	42	100	2900	100	09/15/06	09/15/06	
cis-1,2-Dichloroethene	EPA 8260B	6I15004	32	100	800	100	09/15/06	09/15/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I15004	350	500	1900	100	09/15/06	09/15/06	
Toluene	EPA 8260B	6I15004	36	100	6000	100	09/15/06	09/15/06	
Trichloroethene	EPA 8260B	6I15004	26	100	1800	100	09/15/06	09/15/06	
Vinyl chloride	EPA 8260B	6I15004	26	50	6700	100	09/15/06	09/15/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					100 %				
Surrogate: Dibromofluoromethane (80-120%)					107 %				
Surrogate: Toluene-d8 (80-120%)					100 %				

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Project Manager

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BOE-C6-0056312



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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0724-10RE2 (MWC006_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				H
Reporting Units: ug/l									
2-Butanone (MEK)	EPA 8260B	6124007	1900	2500	130000	J 500	09/24/06	09/24/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					108 %				
Surrogate: Dibromofluoromethane (80-120%)					103 %				
Surrogate: Toluene-d8 (80-120%)					106 %				

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Project Manager

9/28/06

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IP10724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IP10724-11 (CMW026_WG090806_0001 - Water)					Sampled: 09/08/06				
Reporting Units: ug/l									
Acetone	EPA 8260B	6I15004	4.5	10	ND	1	09/15/06	09/15/06	
Benzene	EPA 8260B	6I15004	0.28	1.0	0.34	1	09/15/06	09/15/06	J
Bromobenzene	EPA 8260B	6I15004	0.27	1.0	ND	1	09/15/06	09/15/06	
Bromochloromethane	EPA 8260B	6I15004	0.32	1.0	ND	1	09/15/06	09/15/06	
Bromodichloromethane	EPA 8260B	6I15004	0.30	1.0	ND	1	09/15/06	09/15/06	
Bromoform	EPA 8260B	6I15004	0.32	1.0	ND	1	09/15/06	09/15/06	
Bromomethane	EPA 8260B	6I15004	0.42	1.0	ND	1	09/15/06	09/15/06	
2-Butanone (MEK)	EPA 8260B	6I15004	3.8	5.0	ND	1	09/15/06	09/15/06	
n-Butylbenzene	EPA 8260B	6I15004	0.37	1.0	ND	1	09/15/06	09/15/06	
sec-Butylbenzene	EPA 8260B	6I15004	0.25	1.0	ND	1	09/15/06	09/15/06	
tert-Butylbenzene	EPA 8260B	6I15004	0.22	1.0	ND	1	09/15/06	09/15/06	
Carbon Disulfide	EPA 8260B	6I15004	0.48	1.0	ND	1	09/15/06	09/15/06	
Carbon tetrachloride	EPA 8260B	6I15004	0.28	0.50	ND	1	09/15/06	09/15/06	
Chlorobenzene	EPA 8260B	6I15004	0.36	1.0	ND	1	09/15/06	09/15/06	
Chloroethane	EPA 8260B	6I15004	0.40	2.0	0.62	1	09/15/06	09/15/06	J
Chloroform	EPA 8260B	6I15004	0.33	1.0	ND	1	09/15/06	09/15/06	
Chloromethane	EPA 8260B	6I15004	0.30	2.0	ND	1	09/15/06	09/15/06	
2-Chlorotoluene	EPA 8260B	6I15004	0.28	1.0	ND	1	09/15/06	09/15/06	
4-Chlorotoluene	EPA 8260B	6I15004	0.29	1.0	ND	1	09/15/06	09/15/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6I15004	0.92	2.0	ND	1	09/15/06	09/15/06	
Dibromochloromethane	EPA 8260B	6I15004	0.28	1.0	ND	1	09/15/06	09/15/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6I15004	0.32	1.0	ND	1	09/15/06	09/15/06	
1,4-Dichlorobenzene	EPA 8260B	6I15004	0.37	1.0	ND	1	09/15/06	09/15/06	
1,2-Dichlorobenzene	EPA 8260B	6I15004	0.32	1.0	ND	1	09/15/06	09/15/06	
1,3-Dichlorobenzene	EPA 8260B	6I15004	0.35	1.0	ND	1	09/15/06	09/15/06	
Dichlorodifluoromethane	EPA 8260B	6I15004	0.79	1.0	ND	1	09/15/06	09/15/06	
1,2-Dichloroethane	EPA 8260B	6I15004	0.28	0.50	1.9	1	09/15/06	09/15/06	
1,1-Dichloroethane	EPA 8260B	6I15004	0.27	1.0	4.1	1	09/15/06	09/15/06	
1,1-Dichloroethene	EPA 8260B	6I15004	0.42	1.0	93	1	09/15/06	09/15/06	
trans-1,2-Dichloroethene	EPA 8260B	6I15004	0.27	1.0	3.1	1	09/15/06	09/15/06	
1,2-Dichloropropane	EPA 8260B	6I15004	0.35	1.0	ND	1	09/15/06	09/15/06	
2,2-Dichloropropane	EPA 8260B	6I15004	0.34	1.0	ND	1	09/15/06	09/15/06	
cis-1,3-Dichloropropene	EPA 8260B	6I15004	0.22	0.50	ND	1	09/15/06	09/15/06	
1,1-Dichloropropene	EPA 8260B	6I15004	0.28	1.0	ND	1	09/15/06	09/15/06	
trans-1,3-Dichloropropene	EPA 8260B	6I15004	0.32	0.50	ND	1	09/15/06	09/15/06	
Ethylbenzene	EPA 8260B	6I15004	0.25	1.0	ND	1	09/15/06	09/15/06	
Hexachlorobutadiene	EPA 8260B	6I15004	0.38	1.0	ND	1	09/15/06	09/15/06	
2-Hexanone	EPA 8260B	6I15004	2.6	6.0	ND	1	09/15/06	09/15/06	
Iodomethane	EPA 8260B	6I15004	1.0	2.0	ND	1	09/15/06	09/15/06	
Isopropylbenzene	EPA 8260B	6I15004	0.25	1.0	ND	1	09/15/06	09/15/06	
p-Isopropyltoluene	EPA 8260B	6I15004	0.28	1.0	ND	1	09/15/06	09/15/06	

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Project Manager

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BOE-C6-0056314

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0724-11 (CMW026_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				
Reporting Units: ug/l									
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6I15004	0.32	1.0	ND	1	09/15/06	09/15/06	
Methylene chloride	EPA 8260B	6I15004	0.70	1.0	ND	1	09/15/06	09/15/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I15004	3.5	5.0	ND	1	09/15/06	09/15/06	
n-Propylbenzene	EPA 8260B	6I15004	0.27	1.0	ND	1	09/15/06	09/15/06	
Styrene	EPA 8260B	6I15004	0.16	1.0	ND	1	09/15/06	09/15/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6I15004	0.27	1.0	ND	1	09/15/06	09/15/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I15004	0.24	1.0	ND	1	09/15/06	09/15/06	
Tetrachloroethene	EPA 8260B	6I15004	0.32	1.0	ND	1	09/15/06	09/15/06	
Tetrahydrofuran (THF)	EPA 8260B	6I15004	2.3	10	ND	1	09/15/06	09/15/06	
Toluene	EPA 8260B	6I15004	0.36	1.0	ND	1	09/15/06	09/15/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I15004	0.45	1.0	ND	1	09/15/06	09/15/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I15004	0.48	1.0	ND	1	09/15/06	09/15/06	
1,1,2-Trichloroethane	EPA 8260B	6I15004	0.30	1.0	ND	1	09/15/06	09/15/06	
1,1,1-Trichloroethane	EPA 8260B	6I15004	0.30	1.0	ND	1	09/15/06	09/15/06	
Trichloroethene	EPA 8260B	6I15004	0.26	1.0	47	1	09/15/06	09/15/06	
Trichlorofluoromethane	EPA 8260B	6I15004	0.34	2.0	ND	1	09/15/06	09/15/06	
1,2,3-Trichloropropane	EPA 8260B	6I15004	0.40	1.0	ND	1	09/15/06	09/15/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I15004	0.23	1.0	ND	1	09/15/06	09/15/06	
1,3,5-Trimethylbenzene	EPA 8260B	6I15004	0.26	1.0	ND	1	09/15/06	09/15/06	
Vinyl acetate	EPA 8260B	6I15004	1.7	6.0	ND	1	09/15/06	09/15/06	
Vinyl chloride	EPA 8260B	6I15004	0.26	0.50	110	1	09/15/06	09/15/06	
Xylenes, Total	EPA 8260B	6I15004	0.90	1.0	ND	1	09/15/06	09/15/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					101 %				
Surrogate: Dibromofluoromethane (80-120%)					119 %				
Surrogate: Toluene-d8 (80-120%)					100 %				

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

10/8/06

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BOE-C6-0056315



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0724-11RE1 (CMW026_WG090806_0001 - Water) - cont.					Sampled: 09/08/06				
Reporting Units: ug/l									
cis-1,2-Dichloroethene	EPA 8260B	6115004	1.3	4.0	580	4	09/15/06	09/15/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					100 %				
Surrogate: Dibromofluoromethane (80-120%)					118 %				
Surrogate: Toluene-d8 (80-120%)					101 %				

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

R 10/8/06

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BOE-C6-0056316

LDC #: 15615A1
 SDG #: IPI0724
 Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET EPA Region 1 - Tier 1

Date: 10/18/06
 Page: 1 of 1
 Reviewer: PS
 2nd Reviewer: _____

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 9/8/06
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration	N	
V.	Blanks	SA	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	Δ	TMW - 10 - WG090806-0001
VIII.	Laboratory control samples	Δ	LC7
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

WAW

1	TMW_15_WG090806_0001 ✓	11	6I14007-BUK1	21		31	
2	XMW-09_WG090806_0001 ✓	12	6I15004-BUK1	22		32	
3	MC006_WG090806_0001 ✓	13	6I24007-BUK1	23		33	
4	CMW026_WG090806_0001	14		24		34	
5	MW006-WG090806-0001	15	REF1	25		35	
6	MW006-WG090806-0001	16	REF1	26		36	
7	CMW026-WG090806-0001	17	REF1	27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y	N	N/A

Was a method blank associated with every sample in this SDG?

Y	N	N/A
---	---	-----

Y	N	N/A
---	---	-----

Y	N	N/A
---	---	-----

Blank analysis date: 9/14/06

Conc. units: mg/L

Associated Samples: 1-7 3

[illegible]

Blank analysis date: _____

Conc. units:

Associated Samples:

Compound	Blank ID	Sample Identification							
Methylene chloride									
Acetone									
CRQL									

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

LDC #: 15615A /
SDG #: 1P10724

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?

Y	N	N/A
---	---	-----

Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation? **Y N (N/A)**

[illegible]

Comments: See sample calculation verification worksheet for recalculations

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6

Collection Date: September 11, 2006

LDC Report Date: October 18, 2006

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 2

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPI0893

Sample Identification

CMW002_WG091106_0001

MWB027_WG091106_0001

IRZCMW002_WG091106_0001

CMW002_WG091106_0001RE

IRZCMW002_WG091106_0001RE

Introduction

This data review covers 5 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/12/06	2-Butanone	0.042 (≥ 0.05)	CMW002_WG091106_0001 6116020-Blank	J (all detects) UJ (all non-detects)	A
9/18/06	2-Butanone	0.039 (≥ 0.05)	MWB027_WG091106_0001 IRZCMW002_WG091106_0001 6122013-Blank	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
9/16/06	Chloromethane	28	CMW002_WG091106_0001 6I16020-Blank	J (all detects)	A
	Acetone	40		UJ (all non-detects) J (all detects) UJ (all non-detects)	

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/20/06	2-Butanone	0.042 (≥ 0.05)	MWB027_WG091106_0001 IRZCMW002_WG091106_0001 6I22013-Blank	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
6I22013-Blank	9/20/06	Tetrahydrofuran	3.46 ug/L	MWB027_WG091106_0001 IRZCMW002_WG091106_0001

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater ($>10X$ for common contaminants, $>5X$ for other contaminants) than the concentrations found in the associated method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XIII. Tentatively Identified Compounds (TICs)

Raw data were not reviewed for this SDG.

XIV. System Performance

Raw data were not reviewed for this SDG.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6
Volatiles - Data Qualification Summary - SDG IPI0893

SDG	Sample	Compound	Flag	A or P	Reason
IPI0893	CMW002_WG091106_0001 MWB027_WG091106_0001 IRZCMW002_WG091106_0001	2-Butanone	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
IPI0893	CMW002_WG091106_0001	Chloromethane Acetone	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
IPI0893	MWB027_WG091106_0001 IRZCMW002_WG091106_0001	2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)

Boeing Realty Corp., Bldg C-6
Volatiles - Laboratory Blank Data Qualification Summary - SDG IPI0893

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-05 (CMW002_WG091106_0001 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	6I16020	90	200	ND UJ	20	09/16/06	09/16/06	C
Benzene	EPA 8260B	6I16020	5.6	20	67	20	09/16/06	09/16/06	
Bromobenzene	EPA 8260B	6I16020	5.4	20	ND	20	09/16/06	09/16/06	
Bromochloromethane	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
Bromodichloromethane	EPA 8260B	6I16020	6.0	20	ND	20	09/16/06	09/16/06	
Bromoform	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
Bromomethane	EPA 8260B	6I16020	8.4	20	ND	20	09/16/06	09/16/06	
2-Butanone (MEK)	EPA 8260B	6I16020	76	100	ND UJ	20	09/16/06	09/16/06	
n-Butylbenzene	EPA 8260B	6I16020	7.4	20	ND	20	09/16/06	09/16/06	
sec-Butylbenzene	EPA 8260B	6I16020	5.0	20	ND	20	09/16/06	09/16/06	
tert-Butylbenzene	EPA 8260B	6I16020	4.4	20	ND	20	09/16/06	09/16/06	
Carbon Disulfide	EPA 8260B	6I16020	9.6	20	ND	20	09/16/06	09/16/06	
Carbon tetrachloride	EPA 8260B	6I16020	5.6	10	ND	20	09/16/06	09/16/06	
Chloroethane	EPA 8260B	6I16020	8.0	40	ND	20	09/16/06	09/16/06	
Chloroform	EPA 8260B	6I16020	6.6	20	ND	20	09/16/06	09/16/06	
Chloromethane	EPA 8260B	6I16020	6.0	40	ND UJ	20	09/16/06	09/16/06	
2-Chlorotoluene	EPA 8260B	6I16020	5.6	20	ND	20	09/16/06	09/16/06	
4-Chlorotoluene	EPA 8260B	6I16020	5.8	20	ND	20	09/16/06	09/16/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6I16020	18	40	ND	20	09/16/06	09/16/06	
Dibromochloromethane	EPA 8260B	6I16020	5.6	20	ND	20	09/16/06	09/16/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
1,4-Dichlorobenzene	EPA 8260B	6I16020	7.4	20	12	20	09/16/06	09/16/06	J
1,2-Dichlorobenzene	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
1,3-Dichlorobenzene	EPA 8260B	6I16020	7.0	20	ND	20	09/16/06	09/16/06	
Dichlorodifluoromethane	EPA 8260B	6I16020	16	20	ND	20	09/16/06	09/16/06	
1,2-Dichloroethane	EPA 8260B	6I16020	5.6	10	ND	20	09/16/06	09/16/06	
1,1-Dichloroethane	EPA 8260B	6I16020	5.4	20	ND	20	09/16/06	09/16/06	
1,1-Dichloroethene	EPA 8260B	6I16020	8.4	20	ND	20	09/16/06	09/16/06	
cis-1,2-Dichloroethene	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
trans-1,2-Dichloroethene	EPA 8260B	6I16020	5.4	20	ND	20	09/16/06	09/16/06	
1,2-Dichloropropane	EPA 8260B	6I16020	7.0	20	ND	20	09/16/06	09/16/06	
2,2-Dichloropropane	EPA 8260B	6I16020	6.8	20	ND	20	09/16/06	09/16/06	
cis-1,3-Dichloropropene	EPA 8260B	6I16020	4.4	10	ND	20	09/16/06	09/16/06	
1,1-Dichloropropene	EPA 8260B	6I16020	5.6	20	ND	20	09/16/06	09/16/06	
trans-1,3-Dichloropropene	EPA 8260B	6I16020	6.4	10	ND	20	09/16/06	09/16/06	
Ethylbenzene	EPA 8260B	6I16020	5.0	20	ND	20	09/16/06	09/16/06	
Hexachlorobutadiene	EPA 8260B	6I16020	7.6	20	ND	20	09/16/06	09/16/06	
2-Hexanone	EPA 8260B	6I16020	52	120	ND	20	09/16/06	09/16/06	
Iodomethane	EPA 8260B	6I16020	20	40	ND	20	09/16/06	09/16/06	
Isopropylbenzene	EPA 8260B	6I16020	5.0	20	ND	20	09/16/06	09/16/06	
p-Isopropyltoluene	EPA 8260B	6I16020	5.6	20	ND	20	09/16/06	09/16/06	

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

re 10/18/06

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-05 (CMW002_WG091106_0001 - Water) - cont.									
Reporting Units: ug/l									
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
Methylene chloride	EPA 8260B	6I16020	14	20	36	20	09/16/06	09/16/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I16020	70	100	ND	20	09/16/06	09/16/06	
n-Propylbenzene	EPA 8260B	6I16020	5.4	20	ND	20	09/16/06	09/16/06	
Styrene	EPA 8260B	6I16020	3.2	20	ND	20	09/16/06	09/16/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6I16020	5.4	20	ND	20	09/16/06	09/16/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I16020	4.8	20	ND	20	09/16/06	09/16/06	
Tetrachloroethene	EPA 8260B	6I16020	6.4	20	ND	20	09/16/06	09/16/06	
Tetrahydrofuran (THF)	EPA 8260B	6I16020	46	200	ND	20	09/16/06	09/16/06	
Toluene	EPA 8260B	6I16020	7.2	20	ND	20	09/16/06	09/16/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I16020	9.0	20	ND	20	09/16/06	09/16/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I16020	9.6	20	ND	20	09/16/06	09/16/06	
1,1,2-Trichloroethane	EPA 8260B	6I16020	6.0	20	ND	20	09/16/06	09/16/06	
1,1,1-Trichloroethane	EPA 8260B	6I16020	6.0	20	ND	20	09/16/06	09/16/06	
Trichloroethene	EPA 8260B	6I16020	5.2	20	410	20	09/16/06	09/16/06	
Trichlorofluoromethane	EPA 8260B	6I16020	6.8	40	ND	20	09/16/06	09/16/06	
1,2,3-Trichloropropane	EPA 8260B	6I16020	8.0	20	ND	20	09/16/06	09/16/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I16020	4.6	20	ND	20	09/16/06	09/16/06	
1,3,5-Trimethylbenzene	EPA 8260B	6I16020	5.2	20	ND	20	09/16/06	09/16/06	
Vinyl acetate	EPA 8260B	6I16020	34	120	ND	20	09/16/06	09/16/06	
Vinyl chloride	EPA 8260B	6I16020	5.2	10	ND	20	09/16/06	09/16/06	
Xylenes, Total	EPA 8260B	6I16020	18	20	ND	20	09/16/06	09/16/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					102 %				
Surrogate: Dibromofluoromethane (80-120%)					119 %				
Surrogate: Toluene-d8 (80-120%)					100 %				

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

10/803

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-05RE1 (CMW002_WG091106_0001 - Water) - cont.									
Reporting Units: ug/l									
Chlorobenzene	EPA 8260B	6I17015	36	100	9700	100	09/17/06	09/17/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					100 %				
Surrogate: Dibromofluoromethane (80-120%)					99 %				
Surrogate: Toluene-d8 (80-120%)					100 %				

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

10/805

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-07 (MWB027_WG091106_0001 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	6I20013	4.5	10	ND	1	09/20/06	09/20/06	
Benzene	EPA 8260B	6I20013	0.28	1.0	ND	1	09/20/06	09/20/06	
Bromobenzene	EPA 8260B	6I20013	0.27	1.0	ND	1	09/20/06	09/20/06	
Bromochloromethane	EPA 8260B	6I20013	0.32	1.0	ND	1	09/20/06	09/20/06	
Bromodichloromethane	EPA 8260B	6I20013	0.30	1.0	ND	1	09/20/06	09/20/06	
Bromoform	EPA 8260B	6I20013	0.32	1.0	ND	1	09/20/06	09/20/06	
Bromomethane	EPA 8260B	6I20013	0.42	1.0	ND	1	09/20/06	09/20/06	
2-Butanone (MEK)	EPA 8260B	6I20013	3.8	5.0	ND	1	09/20/06	09/20/06	
n-Butylbenzene	EPA 8260B	6I20013	0.37	1.0	ND	1	09/20/06	09/20/06	
sec-Butylbenzene	EPA 8260B	6I20013	0.25	1.0	ND	1	09/20/06	09/20/06	
tert-Butylbenzene	EPA 8260B	6I20013	0.22	1.0	ND	1	09/20/06	09/20/06	
Carbon Disulfide	EPA 8260B	6I20013	0.48	1.0	ND	1	09/20/06	09/20/06	
Carbon tetrachloride	EPA 8260B	6I20013	0.28	0.50	ND	1	09/20/06	09/20/06	
Chlorobenzene	EPA 8260B	6I20013	0.36	1.0	ND	1	09/20/06	09/20/06	
Chloroethane	EPA 8260B	6I20013	0.40	2.0	ND	1	09/20/06	09/20/06	
Chloroform	EPA 8260B	6I20013	0.33	1.0	2.6	1	09/20/06	09/20/06	
Chloromethane	EPA 8260B	6I20013	0.30	2.0	ND	1	09/20/06	09/20/06	
2-Chlorotoluene	EPA 8260B	6I20013	0.28	1.0	ND	1	09/20/06	09/20/06	
4-Chlorotoluene	EPA 8260B	6I20013	0.29	1.0	ND	1	09/20/06	09/20/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6I20013	0.92	2.0	ND	1	09/20/06	09/20/06	
Dibromochloromethane	EPA 8260B	6I20013	0.28	1.0	ND	1	09/20/06	09/20/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6I20013	0.32	1.0	ND	1	09/20/06	09/20/06	
1,4-Dichlorobenzene	EPA 8260B	6I20013	0.37	1.0	ND	1	09/20/06	09/20/06	
1,2-Dichlorobenzene	EPA 8260B	6I20013	0.32	1.0	ND	1	09/20/06	09/20/06	
1,3-Dichlorobenzene	EPA 8260B	6I20013	0.35	1.0	ND	1	09/20/06	09/20/06	
Dichlorodifluoromethane	EPA 8260B	6I20013	0.79	1.0	ND	1	09/20/06	09/20/06	
1,2-Dichloroethane	EPA 8260B	6I20013	0.28	0.50	ND	1	09/20/06	09/20/06	
1,1-Dichloroethane	EPA 8260B	6I20013	0.27	1.0	ND	1	09/20/06	09/20/06	
1,1-Dichloroethene	EPA 8260B	6I20013	0.42	1.0	81	1	09/20/06	09/20/06	
cis-1,2-Dichloroethene	EPA 8260B	6I20013	0.32	1.0	86	1	09/20/06	09/20/06	
trans-1,2-Dichloroethene	EPA 8260B	6I20013	0.27	1.0	0.32	1	09/20/06	09/20/06	J
1,2-Dichloropropane	EPA 8260B	6I20013	0.35	1.0	ND	1	09/20/06	09/20/06	
2,2-Dichloropropane	EPA 8260B	6I20013	0.34	1.0	ND	1	09/20/06	09/20/06	
cis-1,3-Dichloropropene	EPA 8260B	6I20013	0.22	0.50	ND	1	09/20/06	09/20/06	
1,1-Dichloropropene	EPA 8260B	6I20013	0.28	1.0	ND	1	09/20/06	09/20/06	
trans-1,3-Dichloropropene	EPA 8260B	6I20013	0.32	0.50	ND	1	09/20/06	09/20/06	
Ethylbenzene	EPA 8260B	6I20013	0.25	1.0	ND	1	09/20/06	09/20/06	
Hexachlorobutadiene	EPA 8260B	6I20013	0.38	1.0	ND	1	09/20/06	09/20/06	
2-Hexanone	EPA 8260B	6I20013	2.6	6.0	ND	1	09/20/06	09/20/06	
Iodomethane	EPA 8260B	6I20013	1.0	2.0	ND	1	09/20/06	09/20/06	
Isopropylbenzene	EPA 8260B	6I20013	0.25	1.0	ND	1	09/20/06	09/20/06	

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Michele Chamberlin
Project Manager

9/10/806

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-07 (MWB027_WG091106_0001 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	6I20013	0.28	1.0	ND	1	09/20/06	09/20/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6I20013	0.32	1.0	ND	1	09/20/06	09/20/06	
Methylene chloride	EPA 8260B	6I20013	0.70	1.0	ND	1	09/20/06	09/20/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I20013	3.5	5.0	ND	1	09/20/06	09/20/06	
n-Propylbenzene	EPA 8260B	6I20013	0.27	1.0	ND	1	09/20/06	09/20/06	
Styrene	EPA 8260B	6I20013	0.16	1.0	ND	1	09/20/06	09/20/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6I20013	0.27	1.0	ND	1	09/20/06	09/20/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I20013	0.24	1.0	ND	1	09/20/06	09/20/06	
Tetrachloroethene	EPA 8260B	6I20013	0.32	1.0	0.53	1	09/20/06	09/20/06	J
Tetrahydrofuran (THF)	EPA 8260B	6I20013	2.3	10	ND	1	09/20/06	09/20/06	
Toluene	EPA 8260B	6I20013	0.36	1.0	ND	1	09/20/06	09/20/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I20013	0.45	1.0	ND	1	09/20/06	09/20/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I20013	0.48	1.0	ND	1	09/20/06	09/20/06	
1,1,2-Trichloroethane	EPA 8260B	6I20013	0.30	1.0	ND	1	09/20/06	09/20/06	
1,1,1-Trichloroethane	EPA 8260B	6I20013	0.30	1.0	ND	1	09/20/06	09/20/06	
Trichloroethene	EPA 8260B	6I20013	0.26	1.0	140	1	09/20/06	09/20/06	
Trichlorofluoromethane	EPA 8260B	6I20013	0.34	2.0	4.2	1	09/20/06	09/20/06	
1,2,3-Trichloropropane	EPA 8260B	6I20013	0.40	1.0	ND	1	09/20/06	09/20/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I20013	0.23	1.0	ND	1	09/20/06	09/20/06	
1,3,5-Trimethylbenzene	EPA 8260B	6I20013	0.26	1.0	ND	1	09/20/06	09/20/06	
Vinyl acetate	EPA 8260B	6I20013	1.7	6.0	ND	1	09/20/06	09/20/06	
Vinyl chloride	EPA 8260B	6I20013	0.26	0.50	ND	1	09/20/06	09/20/06	
Xylenes, Total	EPA 8260B	6I20013	0.90	1.0	ND	1	09/20/06	09/20/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					98 %				
Surrogate: Dibromofluoromethane (80-120%)					111 %				
Surrogate: Toluene-d8 (80-120%)					107 %				

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

10/18/06

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-08 (IRZCMW002_WG091106_0001 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	6I20013	9.0	20	ND	2	09/20/06	09/20/06	
Benzene	EPA 8260B	6I20013	0.56	2.0	ND	2	09/20/06	09/20/06	
Bromobenzene	EPA 8260B	6I20013	0.54	2.0	ND	2	09/20/06	09/20/06	
Bromochloromethane	EPA 8260B	6I20013	0.64	2.0	ND	2	09/20/06	09/20/06	
Bromodichloromethane	EPA 8260B	6I20013	0.60	2.0	ND	2	09/20/06	09/20/06	
Bromoform	EPA 8260B	6I20013	0.64	2.0	ND	2	09/20/06	09/20/06	
Bromomethane	EPA 8260B	6I20013	0.84	2.0	ND	2	09/20/06	09/20/06	
2-Butanone (MEK)	EPA 8260B	6I20013	7.6	10	ND	2	09/20/06	09/20/06	
n-Butylbenzene	EPA 8260B	6I20013	0.74	2.0	ND	2	09/20/06	09/20/06	
sec-Butylbenzene	EPA 8260B	6I20013	0.50	2.0	ND	2	09/20/06	09/20/06	
tert-Butylbenzene	EPA 8260B	6I20013	0.44	2.0	ND	2	09/20/06	09/20/06	
Carbon Disulfide	EPA 8260B	6I20013	0.96	2.0	ND	2	09/20/06	09/20/06	
Carbon tetrachloride	EPA 8260B	6I20013	0.56	1.0	ND	2	09/20/06	09/20/06	
Chlorobenzene	EPA 8260B	6I20013	0.72	2.0	2.6	2	09/20/06	09/20/06	
Chloroethane	EPA 8260B	6I20013	0.80	4.0	ND	2	09/20/06	09/20/06	
Chloroform	EPA 8260B	6I20013	0.66	2.0	ND	2	09/20/06	09/20/06	
Chloromethane	EPA 8260B	6I20013	0.60	4.0	ND	2	09/20/06	09/20/06	
2-Chlorotoluene	EPA 8260B	6I20013	0.56	2.0	ND	2	09/20/06	09/20/06	
4-Chlorotoluene	EPA 8260B	6I20013	0.58	2.0	ND	2	09/20/06	09/20/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6I20013	1.8	4.0	ND	2	09/20/06	09/20/06	
Dibromochloromethane	EPA 8260B	6I20013	0.56	2.0	ND	2	09/20/06	09/20/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6I20013	0.64	2.0	ND	2	09/20/06	09/20/06	
1,4-Dichlorobenzene	EPA 8260B	6I20013	0.74	2.0	ND	2	09/20/06	09/20/06	
1,2-Dichlorobenzene	EPA 8260B	6I20013	0.64	2.0	ND	2	09/20/06	09/20/06	
1,3-Dichlorobenzene	EPA 8260B	6I20013	0.70	2.0	ND	2	09/20/06	09/20/06	
Dichlorodifluoromethane	EPA 8260B	6I20013	1.6	2.0	ND	2	09/20/06	09/20/06	
1,2-Dichloroethane	EPA 8260B	6I20013	0.56	1.0	ND	2	09/20/06	09/20/06	
1,1-Dichloroethane	EPA 8260B	6I20013	0.54	2.0	ND	2	09/20/06	09/20/06	
1,1-Dichloroethene	EPA 8260B	6I20013	0.84	2.0	1.5	2	09/20/06	09/20/06	J
cis-1,2-Dichloroethene	EPA 8260B	6I20013	0.64	2.0	2.3	2	09/20/06	09/20/06	
trans-1,2-Dichloroethene	EPA 8260B	6I20013	0.54	2.0	8.2	2	09/20/06	09/20/06	
1,2-Dichloropropane	EPA 8260B	6I20013	0.70	2.0	ND	2	09/20/06	09/20/06	
2,2-Dichloropropane	EPA 8260B	6I20013	0.68	2.0	ND	2	09/20/06	09/20/06	
cis-1,3-Dichloropropene	EPA 8260B	6I20013	0.44	1.0	ND	2	09/20/06	09/20/06	
1,1-Dichloropropene	EPA 8260B	6I20013	0.56	2.0	ND	2	09/20/06	09/20/06	
trans-1,3-Dichloropropene	EPA 8260B	6I20013	0.64	1.0	ND	2	09/20/06	09/20/06	
Ethylbenzene	EPA 8260B	6I20013	0.50	2.0	ND	2	09/20/06	09/20/06	
Hexachlorobutadiene	EPA 8260B	6I20013	0.76	2.0	ND	2	09/20/06	09/20/06	
2-Hexanone	EPA 8260B	6I20013	5.2	12	ND	2	09/20/06	09/20/06	
Iodomethane	EPA 8260B	6I20013	2.0	4.0	ND	2	09/20/06	09/20/06	
Isopropylbenzene	EPA 8260B	6I20013	0.50	2.0	ND	2	09/20/06	09/20/06	

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Michele Chamberlin
Project Manager

7/10/806

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-08 (IRZCMW002_WG091106_0001 - Water) - cont.									
Reporting Units: ug/l									
p-Isopropyltoluene	EPA 8260B	6I20013	0.56	2.0	ND	2	09/20/06	09/20/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6I20013	0.64	2.0	ND	2	09/20/06	09/20/06	
Methylene chloride	EPA 8260B	6I20013	1.4	2.0	1.5	2	09/20/06	09/20/06	J
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I20013	7.0	10	ND	2	09/20/06	09/20/06	
n-Propylbenzene	EPA 8260B	6I20013	0.54	2.0	ND	2	09/20/06	09/20/06	
Styrene	EPA 8260B	6I20013	0.32	2.0	ND	2	09/20/06	09/20/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6I20013	0.54	2.0	ND	2	09/20/06	09/20/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I20013	0.48	2.0	ND	2	09/20/06	09/20/06	
Tetrachloroethene	EPA 8260B	6I20013	0.64	2.0	ND	2	09/20/06	09/20/06	
Tetrahydrofuran (THF)	EPA 8260B	6I20013	4.6	20	ND	2	09/20/06	09/20/06	
Toluene	EPA 8260B	6I20013	0.72	2.0	ND	2	09/20/06	09/20/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I20013	0.90	2.0	ND	2	09/20/06	09/20/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I20013	0.96	2.0	ND	2	09/20/06	09/20/06	
1,1,2-Trichloroethane	EPA 8260B	6I20013	0.60	2.0	ND	2	09/20/06	09/20/06	
1,1,1-Trichloroethane	EPA 8260B	6I20013	0.60	2.0	ND	2	09/20/06	09/20/06	
Trichloroethene	EPA 8260B	6I20013	0.52	2.0	3.7	2	09/20/06	09/20/06	
Trichlorofluoromethane	EPA 8260B	6I20013	0.68	4.0	ND	2	09/20/06	09/20/06	
1,2,3-Trichloropropane	EPA 8260B	6I20013	0.80	2.0	ND	2	09/20/06	09/20/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I20013	0.46	2.0	ND	2	09/20/06	09/20/06	
1,3,5-Trimethylbenzene	EPA 8260B	6I20013	0.52	2.0	ND	2	09/20/06	09/20/06	
Vinyl acetate	EPA 8260B	6I20013	3.4	12	ND	2	09/20/06	09/20/06	
Xylenes, Total	EPA 8260B	6I20013	1.8	2.0	ND	2	09/20/06	09/20/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					100 %				
Surrogate: Dibromofluoromethane (80-120%)					96 %				
Surrogate: Toluene-d8 (80-120%)					106 %				

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

h 10/8/06

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-08RE1 (IRZCMW002_WG091106_0001 - Water) - cont.									
Reporting Units: ug/l									
Vinyl chloride	EPA 8260B	6I17015	5.2	10	1000	20	09/17/06	09/17/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					95 %				
Surrogate: Dibromofluoromethane (80-120%)					103 %				
Surrogate: Toluene-d8 (80-120%)					100 %				

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

R101806

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IPI0893 <Page 19 of 70>

LDC #: 15615B1
SDG #: IPI0893
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET EPA Region 1 - Tier 2

Date: 10/18/06
Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/11/06
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	% RSD, r ² 20990
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:
WAWR

1	1	CMW002_WG091106_0001	11	1	6I16020	21		31	
2	3	MWB027_WG091106_0001	12	2	6I17015	22		32	
3	3	IRZCMW002_WG091106_0001	13	3	6I20013	23		33	
4	2	CMW002-WG091106-0001	14	4	6I1	24		34	
5	2	IRZCMW002-WG091106-0001	15	2	01R51	25		35	
6			16			26		36	
7			17			27		37	
8			18			28		38	
9			19			29		39	
10			20			30		40	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl chloride**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC. 1-Chlorohexane
J. 1,2-Dichloroethane, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethene	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethene	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL.

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Did the laboratory perform a 5 point calibration prior to sample analysis?

Method	Relative standard deviation (%)	Relative response factors (RRF)	Within method criteria for all CCC's and SPCC's?
1	N/A	N/A	Y
2	N/A	N/A	Y
3	N/A	N/A	Y
4	N/A	N/A	Y
5	N/A	N/A	Y
6	N/A	N/A	Y
7	N/A	N/A	Y
8	N/A	N/A	Y
9	N/A	N/A	Y
10	N/A	N/A	Y
11	N/A	N/A	Y
12	N/A	N/A	Y
13	N/A	N/A	Y
14	N/A	N/A	Y
15	N/A	N/A	Y
16	N/A	N/A	Y
17	N/A	N/A	Y
18	N/A	N/A	Y
19	N/A	N/A	Y
20	N/A	N/A	Y
21	N/A	N/A	Y
22	N/A	N/A	Y
23	N/A	N/A	Y
24	N/A	N/A	Y
25	N/A	N/A	Y
26	N/A	N/A	Y
27	N/A	N/A	Y
28	N/A	N/A	Y
29	N/A	N/A	Y
30	N/A	N/A	Y
31	N/A	N/A	Y
32	N/A	N/A	Y
33	N/A	N/A	Y
34	N/A	N/A	Y
35	N/A	N/A	Y
36	N/A	N/A	Y
37	N/A	N/A	Y
38	N/A	N/A	Y
39	N/A	N/A	Y
40	N/A	N/A	Y
41	N/A	N/A	Y
42	N/A	N/A	Y
43	N/A	N/A	Y
44	N/A	N/A	Y
45	N/A	N/A	Y
46	N/A	N/A	Y
47	N/A	N/A	Y
48	N/A	N/A	Y
49	N/A	N/A	Y
50	N/A	N/A	Y
51	N/A	N/A	Y
52	N/A	N/A	Y
53	N/A	N/A	Y
54	N/A	N/A	Y
55	N/A	N/A	Y
56	N/A	N/A	Y
57	N/A	N/A	Y
58	N/A	N/A	Y
59	N/A	N/A	Y
60	N/A	N/A	Y
61	N/A	N/A	Y
62	N/A	N/A	Y
63	N/A	N/A	Y
64	N/A	N/A	Y
65	N/A	N/A	Y
66	N/A	N/A	Y
67	N/A	N/A	Y
68	N/A	N/A	Y
69	N/A	N/A	Y
70	N/A	N/A	Y
71	N/A	N/A	Y
72	N/A	N/A	Y
73	N/A	N/A	Y
74	N/A	N/A	Y
75	N/A	N/A	Y
76	N/A	N/A	Y
77	N/A	N/A	Y
78	N/A	N/A	Y
79	N/A	N/A	Y
80	N/A	N/A	Y
81	N/A	N/A	Y
82	N/A	N/A	Y
83	N/A	N/A	Y
84	N/A	N/A	Y
85	N/A	N/A	Y
86	N/A	N/A	Y
87	N/A	N/A	Y
88	N/A	N/A	Y
89	N/A	N/A	Y
90	N/A	N/A	Y
91	N/A	N/A	Y
92	N/A	N/A	Y
93	N/A	N/A	Y
94	N/A	N/A	Y
95	N/A	N/A	Y
96	N/A	N/A	Y
97	N/A	N/A	Y
98	N/A	N/A	Y
99	N/A	N/A	Y
100	N/A	N/A	Y

Y	N	N/A
---	---	-----

Q	Did the initial calibration meet the acceptance criteria?	N	N/A
---	---	---	-----

	Y	N	N/A
Were all %RSDs and RRFs within the validation criteria of $\leq 30\%$ RSD and ≥ 0.05 RRF?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[illegible]

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were all %D and RRFs within the validation criteria of ≤ 25 %D and ≥ 0.05 RRF?	Y	N	N/A
Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?	Y	N	N/A
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	Y	N	N/A
Not applicable questions are identified as "N/A".			

BOE-C6-0056338

Blanks

LDC #: 15615B1
SDG #: 1P10893

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a method blank associated with every sample in this SDG?

Y N N/A

Y	N	N/A	Was a method blank associated with every sample in this SDG?
---	---	-----	--

/Y	N	N/A
----	---	-----

Y	N	N/A

Blank analysis date: 9/20/06

Conc. units: mg/L

Associated Samples: 2, 3 (ND)

[illegible]

Blank analysis date: _____

Conc. units:

Associated Samples:

[illegible]

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

BLANKS2.1SB

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6

Collection Date: September 13, 2006

LDC Report Date: October 18, 2006

Matrix: Water

Parameters: Volatiles

Validation Level: Tier 3

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPI1170

Sample Identification

IRZB0095_WG091306_0001
IRZB0095_WG091306_0001RE

Introduction

This data review covers 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8260B for Volatiles.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XVI.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at 12 hour intervals.

All ion abundance requirements were met.

III. Initial Calibration

Initial calibration was performed using required standard concentrations.

Percent relative standard deviations (%RSD) were less than or equal to 15.0% for each individual compound and less than or equal to 30.0% for calibration check compounds (CCCs).

In the case where %RSD was greater than 15.0%, the laboratory used a calibration curve to evaluate the compound. All coefficients of determination (r^2) were greater than or equal to 0.990 .

For the purposes of technical evaluation, all compounds were evaluated against the 30.0% (%RSD) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria.

Average relative response factors (RRF) for all volatile target compounds and system performance check compounds (SPCCs) were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/18/06	2-Butanone	0.039 (≥ 0.05)	IRZB0095_WG091306_0001RE 6I22012-BLK1	J (all detects) UJ (all non-detects)	A

IV. Continuing Calibration

Continuing calibration was performed at the required frequencies.

Percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were within the method criteria of less than or equal to 20.0% for calibration check compounds (CCCs).

For the purposes of technical evaluation, all compounds were evaluated against the 25.0% (%D) National Functional Guideline criteria. Unless noted above, all compounds were within the validation criteria with the following exceptions:

Date	Compound	%D	Associated Samples	Flag	A or P
9/22/06	2-Butanone	25.6	IRZB0095_WG091306_0001RE 6I22012-BLK1	J (all detects) UJ (all non-detects)	A

All of the continuing calibration RRF values were within method and validation criteria with the following exceptions:

Date	Compound	RRF (Limits)	Associated Samples	Flag	A or P
9/22/06	2-Butanone	0.049 (≥ 0.05)	IRZB0095_WG091306_0001RE 6I22012-BLK1	J (all detects) UJ (all non-detects)	A

V. Blanks

Method blanks were reviewed for each matrix as applicable. No volatile contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Analysis Date	Compound TIC (RT in minutes)	Concentration	Associated Samples
6I22012-Blank	9/22/06	Tetrahydrofuran 1,2,4-Trimethylbenzene	4.23 ug/L 0.280 ug/L	IRZB0095_WG091306_0001RE

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater ($>10X$ for common contaminants, $>5X$ for other contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound TIC (RT in minutes)	Reported Concentration	Modified Final Concentration
IRZB0095_WG091306_0001RE (4x)	Tetrahydrofuran	12 ug/L	40U ug/L

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were not within QC limits. Since there were no associated samples, no data were qualified.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits with the following exceptions:

LCS ID	Compound	%R (Limits)	Associated Samples	Flag	A or P
6I22012-BS1	Acetone 2-Butanone 2-Hexanone	144 (25-135) 139 (40-135) 145 (40-135)	IRZB0095_WG091306_0001RE 6I22012-BLK1	J (all detects) J (all detects) J (all detects)	P

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Internal Standards

All internal standard areas and retention times were within QC limits.

XI. Target Compound Identifications

All target compound identifications were within validation criteria.

XII. Compound Quantitation and CRQLs

All compound quantitation and CRQLs were within validation criteria.

XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

XIV. System Performance

The system performance was acceptable.

XV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XVI. Field Duplicates

No field duplicates were identified in this SDG.

XVII. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6
Volatiles - Data Qualification Summary - SDG IPI1170

SDG	Sample	Compound	Flag	A or P	Reason
IPI1170	IRZB0095_WG091306_0001RE	2-Butanone	J (all detects) UJ (all non-detects)	A	Initial calibration (RRF)
IPI1170	IRZB0095_WG091306_0001RE	2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (%D)
IPI1170	IRZB0095_WG091306_0001RE	2-Butanone	J (all detects) UJ (all non-detects)	A	Continuing calibration (RRF)
IPI1170	IRZB0095_WG091306_0001RE	Acetone 2-Butanone 2-Hexanone	J (all detects) J (all detects) J (all detects)	P	Laboratory control samples (%R)

Boeing Realty Corp., Bldg C-6
Volatiles - Laboratory Blank Data Qualification Summary - SDG IPI1170

SDG	Sample	Compound TIC (RT in minutes)	Modified Final Concentration	A or P
IPI1170	IRZB0095_WG091306_0001RE (4x)	Tetrahydrofuran	40U ug/L	A

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI1170

Sampled: 09/13/06
Received: 09/13/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1170-04 (IRZB0095_WG091306_0001 - Water)									
Reporting Units: ug/l									
cis-1,2-Dichloroethene	EPA 8260B	6I17012	3.2	10	610	10	09/17/06	09/17/06	
Trichloroethene	EPA 8260B	6I17012	2.6	10	470	10	09/17/06	09/17/06	
Vinyl chloride	EPA 8260B	6I17012	2.6	5.0	1100	10	09/17/06	09/17/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					99 %				
Surrogate: Dibromofluoromethane (80-120%)					114 %				
Surrogate: Toluene-d8 (80-120%)					101 %				
Sample ID: IPI1170-04RE1 (IRZB0095_WG091306_0001 - Water)									
Reporting Units: ug/l									
Acetone	EPA 8260B	6I22012	18	40	ND	4	09/22/06	09/22/06	L
Benzene	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
Bromobenzene	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
Bromochloromethane	EPA 8260B	6I22012	1.3	4.0	ND	4	09/22/06	09/22/06	
Bromodichloromethane	EPA 8260B	6I22012	1.2	4.0	ND	4	09/22/06	09/22/06	
Bromoform	EPA 8260B	6I22012	1.3	4.0	ND	4	09/22/06	09/22/06	
Bromomethane	EPA 8260B	6I22012	1.7	4.0	ND	4	09/22/06	09/22/06	
2-Butanone (MEK)	EPA 8260B	6I22012	15	20	ND	4	09/22/06	09/22/06	L
n-Butylbenzene	EPA 8260B	6I22012	1.5	4.0	ND	4	09/22/06	09/22/06	
sec-Butylbenzene	EPA 8260B	6I22012	1.0	4.0	ND	4	09/22/06	09/22/06	
tert-Butylbenzene	EPA 8260B	6I22012	0.88	4.0	ND	4	09/22/06	09/22/06	
Carbon Disulfide	EPA 8260B	6I22012	1.9	4.0	ND	4	09/22/06	09/22/06	
Carbon tetrachloride	EPA 8260B	6I22012	1.1	2.0	ND	4	09/22/06	09/22/06	
Chlorobenzene	EPA 8260B	6I22012	1.4	4.0	ND	4	09/22/06	09/22/06	
Chloroethane	EPA 8260B	6I22012	1.6	8.0	ND	4	09/22/06	09/22/06	
Chloroform	EPA 8260B	6I22012	1.3	4.0	1.4	4	09/22/06	09/22/06	J
Chloromethane	EPA 8260B	6I22012	1.2	8.0	ND	4	09/22/06	09/22/06	
2-Chlorotoluene	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
4-Chlorotoluene	EPA 8260B	6I22012	1.2	4.0	ND	4	09/22/06	09/22/06	
1,2-Dibromo-3-chloropropane	EPA 8260B	6I22012	3.7	8.0	ND	4	09/22/06	09/22/06	
Dibromochloromethane	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
1,2-Dibromoethane (EDB)	EPA 8260B	6I22012	1.3	4.0	ND	4	09/22/06	09/22/06	
1,4-Dichlorobenzene	EPA 8260B	6I22012	1.5	4.0	ND	4	09/22/06	09/22/06	
1,2-Dichlorobenzene	EPA 8260B	6I22012	1.3	4.0	ND	4	09/22/06	09/22/06	
1,3-Dichlorobenzene	EPA 8260B	6I22012	1.4	4.0	ND	4	09/22/06	09/22/06	
Dichlorodifluoromethane	EPA 8260B	6I22012	3.2	4.0	ND	4	09/22/06	09/22/06	
1,2-Dichloroethane	EPA 8260B	6I22012	1.1	2.0	ND	4	09/22/06	09/22/06	
1,1-Dichloroethane	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
1,1-Dichloroethene	EPA 8260B	6I22012	1.7	4.0	11	4	09/22/06	09/22/06	
trans-1,2-Dichloroethene	EPA 8260B	6I22012	1.1	4.0	4.9	4	09/22/06	09/22/06	
1,2-Dichloropropane	EPA 8260B	6I22012	1.4	4.0	ND	4	09/22/06	09/22/06	
2,2-Dichloropropane	EPA 8260B	6I22012	1.4	4.0	ND	4	09/22/06	09/22/06	

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

10/18/06

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TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI1170

Sampled: 09/13/06
Received: 09/13/06

VOLATILE ORGANICS by GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1170-04RE1 (IRZB0095_WG091306_0001 - Water) - cont.									
Reporting Units: ug/l									
cis-1,3-Dichloropropene	EPA 8260B	6I22012	0.88	2.0	ND	4	09/22/06	09/22/06	
1,1-Dichloropropene	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
trans-1,3-Dichloropropene	EPA 8260B	6I22012	1.3	2.0	ND	4	09/22/06	09/22/06	
Ethylbenzene	EPA 8260B	6I22012	1.0	4.0	ND	4	09/22/06	09/22/06	
Hexachlorobutadiene	EPA 8260B	6I22012	1.5	4.0	ND	4	09/22/06	09/22/06	
2-Hexanone	EPA 8260B	6I22012	10	24	ND	4	09/22/06	09/22/06	L
Iodomethane	EPA 8260B	6I22012	4.0	8.0	ND	4	09/22/06	09/22/06	
Isopropylbenzene	EPA 8260B	6I22012	1.0	4.0	ND	4	09/22/06	09/22/06	
p-Isopropyltoluene	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	6I22012	1.3	4.0	ND	4	09/22/06	09/22/06	
Methylene chloride	EPA 8260B	6I22012	2.8	4.0	ND	4	09/22/06	09/22/06	
4-Methyl-2-pentanone (MIBK)	EPA 8260B	6I22012	14	20	ND	4	09/22/06	09/22/06	
n-Propylbenzene	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
Styrene	EPA 8260B	6I22012	0.64	4.0	ND	4	09/22/06	09/22/06	
1,1,1,2-Tetrachloroethane	EPA 8260B	6I22012	1.1	4.0	ND	4	09/22/06	09/22/06	
1,1,2,2-Tetrachloroethane	EPA 8260B	6I22012	0.96	4.0	ND	4	09/22/06	09/22/06	
Tetrachloroethene	EPA 8260B	6I22012	1.3	4.0	3.7	4	09/22/06	09/22/06	J
Tetrahydrofuran (THF)	EPA 8260B	6I22012	9.2	40	12 404	4	09/22/06	09/22/06	B, J
Toluene	EPA 8260B	6I22012	1.4	4.0	ND	4	09/22/06	09/22/06	
1,2,3-Trichlorobenzene	EPA 8260B	6I22012	1.8	4.0	ND	4	09/22/06	09/22/06	
1,2,4-Trichlorobenzene	EPA 8260B	6I22012	1.9	4.0	ND	4	09/22/06	09/22/06	
1,1,2-Trichloroethane	EPA 8260B	6I22012	1.2	4.0	ND	4	09/22/06	09/22/06	
1,1,1-Trichloroethane	EPA 8260B	6I22012	1.2	4.0	ND	4	09/22/06	09/22/06	
Trichlorofluoromethane	EPA 8260B	6I22012	1.4	8.0	ND	4	09/22/06	09/22/06	
1,2,3-Trichloropropane	EPA 8260B	6I22012	1.6	4.0	ND	4	09/22/06	09/22/06	
1,2,4-Trimethylbenzene	EPA 8260B	6I22012	0.92	4.0	ND	4	09/22/06	09/22/06	
1,3,5-Trimethylbenzene	EPA 8260B	6I22012	1.0	4.0	ND	4	09/22/06	09/22/06	
Vinyl acetate	EPA 8260B	6I22012	6.8	24	ND	4	09/22/06	09/22/06	
Xylenes, Total	EPA 8260B	6I22012	3.6	4.0	ND	4	09/22/06	09/22/06	
Surrogate: 4-Bromofluorobenzene (80-120%)					100 %				
Surrogate: Dibromofluoromethane (80-120%)					107 %				
Surrogate: Toluene-d8 (80-120%)					106 %				

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

R 10/18/06

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

IPI1170 <Page 9 of 65>

LDC #: 15615C1
 SDG #: IPI1170
 Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET

EPA Region 1 - Tier 3

Date: 10/18/06
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/13/06
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	SW	% RSD, 1 ² 20990
IV.	Continuing calibration	SW	
V.	Blanks	SW	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	EB - TAIT 091306-0001
VIII.	Laboratory control samples	SW	LC5
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	A	
XI.	Target compound identification	A	
XII.	Compound quantitation/CRQLs	A	
XIII.	Tentatively identified compounds (TICs)	N	not reported
XIV.	System performance	A	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

Water

1	IRZB0095-WG091306_0001	11	6I17012	21	31
2	IREB0095-WG091306-0001	12	6I22012	22	32
3	REL	13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

LDC #: 1561SC
SDG #: 1P11170

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: FT
2nd Reviewer: u

Method: Volatiles (EPA SW 846 Method 8260B)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
II. GC/MS instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples analyzed within the 12 hour clock criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
III. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990 ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) > 0.05 ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) ≥ 0.05 ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
V. Blanks				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed at least once every 12 hours for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VI. Surrogate spikes				
Were all surrogate %R within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
VII. Matrix spike/Matrix spike duplicates				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
VIII. Laboratory control samples				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

LDC #: 1561501
SDG #: 1P11170

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2
Reviewer: F7
2nd Reviewer: 4

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per analytical batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
IX. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
X. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were retention times within + 30 seconds of the associated calibration standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XI. Target compound identification				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XII. Compound quantitation/CRQLs				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XIII. Tentatively identified compounds (TICs)				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within $\pm 20\%$ between the sample and the reference spectra?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XIV. System performance				
System performance was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XVI. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
XVII. Field blanks				
Field blanks were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target compounds were detected in the field blanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

TARGET COMPOUND WORKSHEET

METHOD: VOA (EPA SW 846 Method 8260B)

A. Chloromethane*	S. Trichloroethene	KK. Trichlorofluoromethane	CCC. tert-Butylbenzene	UUU. 1,2-Dichlorotetrafluoroethane
B. Bromomethane	T. Dibromochloromethane	LL. Methyl-tert-butyl ether	DDD. 1,2,4-Trimethylbenzene	VVV. 4-Ethyltoluene
C. Vinyl chloride**	U. 1,1,2-Trichloroethane	MM. 1,2-Dibromo-3-chloropropane	EEE. sec-Butylbenzene	WWW. Ethanol
D. Chloroethane	V. Benzene	NN. Methyl ethyl ketone	FFF. 1,3-Dichlorobenzene	XXX. Di-Isopropyl ether
E. Methylene chloride	W. trans-1,3-Dichloropropene	OO. 2,2-Dichloropropane	GGG. p-Isopropyltoluene	YYY. tert-Butanol
F. Acetone	X. Bromoform*	PP. Bromochloromethane	HHH. 1,4-Dichlorobenzene	ZZZ. tert-Butyl alcohol
G. Carbon disulfide	Y. 4-Methyl-2-pentanone	QQ. 1,1-Dichloropropene	III. n-Butylbenzene	AAAA. Ethyl tert-butyl ether
H. 1,1-Dichloroethene**	Z. 2-Hexanone	RR. Dibromomethane	JJJ. 1,2-Dichlorobenzene	BBBB. tert-Amyl methyl ether
I. 1,1-Dichloroethane*	AA. Tetrachloroethene	SS. 1,3-Dichloropropane	KKK. 1,2,4-Trichlorobenzene	CCCC. 1-Chlorohexane
J. 1,2-Dichloroethene, total	BB. 1,1,2,2-Tetrachloroethane*	TT. 1,2-Dibromoethane	LLL. Hexachlorobutadiene	DDDD. Isopropyl alcohol
K. Chloroform**	CC. Toluene**	UU. 1,1,1,2-Tetrachloroethane	MMM. Naphthalene	EEEE. Acetonitrile
L. 1,2-Dichloroethane	DD. Chlorobenzene*	VV. Isopropylbenzene	NNN. 1,2,3-Trichlorobenzene	FFFF. Acrolein
M. 2-Butanone	EE. Ethylbenzene**	WW. Bromobenzene	OOO. 1,3,5-Trichlorobenzene	GGGG. Acrylonitrile
N. 1,1,1-Trichloroethane	FF. Styrene	XX. 1,2,3-Trichloropropane	PPP. trans-1,2-Dichloroethane	HHHH. 1,4-Dioxane
O. Carbon tetrachloride	GG. Xylenes, total	YY. n-Propylbenzene	QQQ. cis-1,2-Dichloroethane	IIII. Isobutyl alcohol
P. Bromodichloromethane	HH. Vinyl acetate	ZZ. 2-Chlorotoluene	RRR. m,p-Xylenes	JJJJ. Methacrylonitrile
Q. 1,2-Dichloropropane**	II. 2-Chloroethylvinyl ether	AAA. 1,3,5-Trimethylbenzene	SSS. o-Xylene	KKKK. Propionitrile
R. cis-1,3-Dichloropropene	JJ. Dichlorodifluoromethane	BBB. 4-Chlorotoluene	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	LLLL

* = System performance check compounds (SPCC) for RRF ; ** = Calibration check compounds (CCC) for %RSD.

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y/N	N/A	Were percent differences (%D) and relative response factors (RRF) within method criteria for all CCC's and SPCC's?

	Y	N	N/A
Were all %D and RRFs within the validation criteria of $\leq 25\%$ D and ≥ 0.05 RRF?			

[illegible]

LDC #: 156154
SDG #: 181170

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 1 of 1
Reviewer: FB
2nd Reviewer: RL

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a method blank associated with every sample in this SDG?
Y N N/A Was a method blank analyzed at least once every 12 hours for each matrix and concentration?
Y N N/A Was there contamination in the method blanks? If yes, please see the qualifications below.

Blank analysis date: 9/22/06

Conc. units: ug/L

Associated Samples: 2

Compound	Blank ID	Sample Identification									
Methylene chloride Tetrahydrofuran	GI 22012-Blank	4X									
Acetone	4.23	2									
DDD	0.280	12/40M									
		-									
CRQL											

Blank analysis date: _____

Conc. units: _____

Associated Samples: _____

Compound	Blank ID	Sample Identification									
Methylene chloride											
Acetone											
CRQL											

All results were qualified using the criteria stated below except those circled.

Note: Common contaminants such as Methylene chloride, Acetone, 2-Butanone, Carbon disulfide and TICs that were detected in samples within ten times the associated method blank concentration were qualified as not detected, "U". Other contaminants within five times the method blank concentration were also qualified as not detected, "U".

BLANKS2.1SB

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y)	N	N/A
(Y)	N	N/A

Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?

[illegible]

LDC #: 1561501
SDG #: 1811170

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_s/C_s)/(A_i/C_i)$
average RRF = sum of the RRFs/number of standards
%RSD = $100 * (S/X)$

A_s = Area of compound,
 C_s = Concentration of compound,
 S = Standard deviation of the RRFs
 X = Mean of the RRFs

A_i = Area of associated internal standard
 C_i = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported		Recalculated		Reported		Recalculated	
				RRF (25 std)	RRF (25 std)	RRF (25 std)	Average RRF (Initial)	Average RRF (Initial)	%RSD	Average RRF (Initial)	%RSD
1	615ms1	9/12/06	Methylene chloride (1st internal standard) vinyl Trichlorethene (2nd internal standard) Toluene (3rd internal standard)	0.589 0.406	0.589 0.406	0.589 0.406	0.587 0.384	0.587 0.384	7.932 9.346	7.932 9.346	
2	615ms3	9/18/06	Methylene chloride (1st internal standard) vinyl Trichlorethene (2nd internal standard) 2-ethyl benzene Toluene (3rd internal standard)	0.418 0.413 1.795	0.418 0.413 1.795	0.418 0.413 1.795	0.477 0.372 1.509	0.477 0.372 1.509	12.79 10.73 13.96	12.79 10.73 13.96	
3			Methylene chloride (1st internal standard) 1,2-DCB Trichlorethene (2nd internal standard) Toluene (3rd internal standard)	1.531	1.531	1.531	1.405	1.405	11.87	11.87	
4			Methylene chloride (1st internal standard) Trichlorethene (2nd internal standard) Toluene (3rd internal standard)								

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 1561521
SDG #: 1P11170

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 6 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Difference} = 100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$$
$$\text{RRF} = (A_x)(C_s) / (A_s)(C_x)$$

Where: ave. RRF = Initial calibration average RRF
RRF = continuing calibration RRF

A_x = Area of compound,
 C_x = Concentration of compound,
 A_s = Area of associated Internal standard
 C_s = Concentration of Internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated	
					RRF (CC)	%D	RRF (CC)	%D
1	cal	9/17/06 @ 9:19	Methylene chloride (1st Internal standard) Vinyl Chloride (1st Internal standard)	0.587	0.530	9.7	0.530	9.7
			Trichlorethene (2nd Internal standard)	0.384	0.393	2.3	0.393	2.3
			Toluene (3rd Internal standard)					
2	cal	9/22/06	Methylene chloride (1st Internal standard) Vinyl Chloride (1st Internal standard)	0.477	0.385	19.3	0.385	19.3
			Trichlorethene (2nd Internal standard)	0.372	0.378	1.6	0.378	1.6
			Toluene (3rd Internal standard) Ethyl Benzene (3rd Internal standard)	1.509	1.598	5.9	1.598	5.9
3			Methylene chloride (1st Internal standard) 1,2-DCP (1st Internal standard)	1.405	1.398	1.1	1.398	1.1
			Trichlorethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					
4			Methylene chloride (1st Internal standard)					
			Trichlorethene (2nd Internal standard)					
			Toluene (3rd Internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CONCL:1SB

LDC #: 15615C/
SDG #: 1P11170

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: P
2nd reviewer: X

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: $SF/SS \times 100$

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 2

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8	25	26.57	106	106	0
Bromofluorobenzene	↓	25.12	100	100	↓
1,2-Dichloroethane-d4					
Dibromofluoromethane	↓	26.76	107	107	↓

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

Sample ID: _____

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Toluene-d8					
Bromofluorobenzene					
1,2-Dichloroethane-d4					
Dibromofluoromethane					

LDC #: 1561SC1
SDG #: 1P1170

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: P
2nd Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$$\% \text{ Recovery} = 100 * (SSC - SC) / SA$$

Where: SSC = Spiked sample concentration
SA = Spike added

SC = Sample concentration
MSDC = Matrix spike duplicate percent recovery

$$RPD = |MSC - MSDC| * 2 / (MSC + MSDC)$$

MSC = Matrix spike percent recovery

MS/MSD sample: EB - TA11091306-6001

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)		Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	MS	MSD	MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	25.0	25.0	0		28.6	27.7	114	114	111	101	3	3
Trichloroethene					27.2	27.9	109	109	112	112	3	3
Benzene					26.0	26.6	104	104	106	106	2	2
Toluene					27.0	27.6	108	108	110	110	2	2
Chlorobenzene					26.4	27.0	106	106	108	108	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

[illegible]

BOE-C6-0056362

SDG #: 1P11170

Sample Calculation Verification

2nd reviewer: Y

METHOD: GC/MS VOA (EPA SW 846 Method 8260B)

Y N N/A

Were all reported results recalculated and verified for all level IV samples?

Y/N N/A

Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

$$\text{Concentration} = \frac{(A_s)(I_s)(DF)}{(A_{\text{std}})(RRF)(V_o)(\%S)}$$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_{std} = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. #1, Vinyl chloride

$$\text{Conc.} = \frac{(1373256)(25)(10)}{935759(0.587)} = 1092 \text{ ug/L}$$
[illegible]

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6

Collection Date: September 8, 2006

LDC Report Date: October 18, 2006

Matrix: Water

Parameters: Sulfide

Validation Level: Tier 1

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPI0724

Sample Identification

CMW026_WG090806_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 376.2 for Sulfide.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration data were not reviewed for Tier I.

b. Calibration Verification

Calibration verification data were not reviewed for Tier I.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6
Sulfide - Data Qualification Summary - SDG IPI0724

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6
Sulfide - Laboratory Blank Data Qualification Summary - SDG IPI0724

No Sample Data Qualified in this SDG



ANALYTICAL TESTING CORPORATION

17461 Derian Avenue, Suite 100, Irvine, CA 92614 (949) 261-1022 Fax: (949) 260-3297

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0724

Sampled: 09/08/06
Received: 09/08/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0724-11 (CMW026_WG090806_0001 - Water)					Sampled: 09/08/06				
Reporting Units: mg/l									
Sulfide	EPA 376.2	6112105	0.010	0.10	0.15	1	09/12/06	09/12/06	

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

R 101806

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BOE-C6-0056370

LDC #: 15615A6

VALIDATION COMPLETENESS WORKSHEET

Date: 10/18/16

SDG #: IPI0724

Tier 1

Page: 1 of 1

Laboratory: Del Mar Analytical Test American

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: (Analyte)_Sulfide (EPA Method 376.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/16
IIa.	Initial calibration	N	
IIb.	Calibration verification	N	
III.	Blanks	A	MB
IV	Matrix Spike/Matrix Spike Duplicates	A	MS/MSD sig IPI0893
V	Duplicates	N	
VI.	Laboratory control samples	A	LC
VII.	Sample result verification	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	CMW026_WG090806_0001	11		21		31	
2	MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Bldg C-6

Collection Date: September 11, 2006

LDC Report Date: October 18, 2006

Matrix: Water

Parameters: Sulfide

Validation Level: Tier 2

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPI0893

Sample Identification

CMW002_WG091106_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 376.2 for Sulfide.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of this method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for this method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6
Sulfide - Data Qualification Summary - SDG IPI0893

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6
Sulfide - Laboratory Blank Data Qualification Summary - SDG IPI0893

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI0893

Sampled: 09/11/06
Received: 09/11/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI0893-05 (CMW002_WG091106_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I12105	0.010	0.10	0.041	1	09/12/06	09/12/06	J
Sample ID: IPI0893-08 (IRZCMW002_WG091106_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I12105	0.010	0.10	0.42	1	09/12/06	09/12/06	
Sample ID: IPI0893-10 (IRZCMW001_WG091106_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I12105	0.010	0.10	ND	1	09/12/06	09/12/06	

TestAmerica - Irvine, CA
Michele Chamberlin
Project Manager

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101806

IPI0893 <Page 25 of 70>

LDC #: 15615B6
SDG #: IPI0893
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET
Tier 2

Date: 10/18/06
Page: 1 of 1
Reviewer: *mm*
2nd Reviewer: *mm*

METHOD: (Analyte)_Sulfide (EPA Method 376.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/11/06
IIa.	Initial calibration	A	
IIb.	Calibration verification	A SW	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	A	for this day MS/MSD
V	Duplicates	N	
VI.	Laboratory control samples	A	Leg
VII.	Sample result verification	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples: *for*

1	CMW002_WG091106_0001	11		21		31	
2	<i>MA</i>	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Boeing Realty Corp., Former C-6 Torrance

Collection Date: June 16, 2006

LDC Report Date: October 18, 2006

Matrix: Water

Parameters: Sulfide

Validation Level: Tier 3

Laboratory: TestAmerica

Sample Delivery Group (SDG): IPF1882

Sample Identification

IRZB0081_WG061606_0001

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 376.2 for Sulfide.

The review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

All criteria for the initial calibration of this method were met.

b. Calibration Verification

Calibration verification frequency and analysis criteria were met for this method when applicable.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the method blanks.

IV. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) analyses were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Duplicates

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VI. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VII. Sample Result Verification

All sample result verifications were acceptable.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

X. Field Blanks

No field blanks were identified in this SDG.

Boeing Realty Corp., Bldg C-6
Sulfide - Data Qualification Summary - SDG IPI1170

No Sample Data Qualified in this SDG

Boeing Realty Corp., Bldg C-6
Sulfide - Laboratory Blank Data Qualification Summary - SDG IPI1170

No Sample Data Qualified in this SDG

TAIT Environmental/Boeing
701 N. Parkcenter Drive
Santa Ana, CA 92705
Attention: Mehmet Pehlivan

Project ID: Boeing C-6 Torrance
EM2727
Report Number: IPI1170

Sampled: 09/13/06
Received: 09/13/06

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IPI1170-04 (IRZB0095_WG091306_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I14105	0.010	0.10	0.018	1	09/14/06	09/14/06	J
Sample ID: IPI1170-05 (IRZMW003A_WG091306_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I14105	0.010	0.10	0.089	1	09/14/06	09/14/06	J
Sample ID: IPI1170-06 (IRZMW001A_WG091306_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I14105	0.010	0.10	0.039	1	09/14/06	09/14/06	J
Sample ID: IPI1170-07 (IRZB0081_WG091306_0001 - Water)									
Reporting Units: mg/l									
Sulfide	EPA 376.2	6I14105	0.010	0.10	0.042	1	09/14/06	09/14/06	J

TestAmerica - Irvine, CA
Nicholas Marz For Michele Chamberlin
Project Manager

h 10/8/06

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LDC #: 15615C6
SDG #: IPI1170
Laboratory: Test America

VALIDATION COMPLETENESS WORKSHEET
Tier 3

Date: 10/18/06
Page: 1 of 1
Reviewer: [signature]
2nd Reviewer: [signature]

METHOD: (Analyte)_Sulfide (EPA Method 376.2)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/13/06
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	A	non client sample
V	Duplicates	N	
VI.	Laboratory control samples	A	yes
VII.	Sample result verification	A	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

10

1	IRZB0095_WG091306_0001	11		21		31	
2	MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 1561526
SDG #: 2751170

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: MY
2nd Reviewer: a

Method: Inorganics (EPA Method 3762)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
II. Calibration				
Were all instruments calibrated daily, each set-up time?	/			
Were the proper number of standards used?	/			
Were all initial calibration correlation coefficients > 0.995?	/			
Were all initial and continuing calibration verification %Rs within the 90-110% QC limits? <u>85-115</u>	/			
Were titrant checks performed as required? (Level IV only)			/	
Were balance checks performed as required? (Level IV only)			/	
III. Blanks				
Was a method blank associated with every sample in this SDG?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
IV. Matrix spike/Matrix spike duplicates and Duplicates				
Were a matrix spike (MS) and duplicate (DUP) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD or MS/DUP. Soil / Water.	/			<u>how client</u>
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the 75-125 QC limits? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.	/			
Were the MS/MSD or duplicate relative percent differences (RPD) ≤ 20% for waters and ≤ 35% for soil samples? A control limit of ≤ CRDL (≤ 2X CRDL for soil) was used for samples that were ≤ 5X the CRDL, including when only one of the duplicate sample values were ≤ 5X the CRDL.	/			
V. Laboratory control samples				
Was an LCS analyzed for this SDG?	/			
Was an LCS analyzed per extraction batch?	/			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the 80-120% (85-115% for Method 300.0) QC limits?	/			
VI. Regional Quality Assurance and Quality Control				
Were performance evaluation (PE) samples performed?			/	
Were the performance evaluation (PE) samples within the acceptance limits?			/	

LDC #: 1561546
SDG #: TP 31120

VALIDATION FINDINGS CHECKLIST

Page: 1 of 1
Reviewer: my
2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
VII. Sample Result Verification				
Were RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were detection limits < RL?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
IX. Field duplicates				
Field duplicate pairs were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target analytes were detected in the field duplicates.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
X. Field blanks				
Field blanks were identified in this SDG.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Target analytes were detected in the field blanks.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 561526
SDG #: 4451170

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Page: 1 of 1
Reviewer: WJ
2nd Reviewer: EL

METHOD: Inorganics, Method 376.2

The correlation coefficient (r) for the calibration of S was recalculated. Calibration date: 07/14/06

An initial or continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = $\frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the ICV or CCV solution
True = concentration of each analyte in the ICV or CCV source

Type of Analysis	Analyte		Conc. (mg/L) (units)	Blank	_____ (units)	Recalculated		Reported		Acceptable (Y/N)
						r or %R	r or %R			
Initial calibration Calibration verification	S	Blank	P	0	$r = 0.99883$	$r = 0.99883$			Y	
		Standard 1	0.092	0.040						
		Standard 2	0.276	0.108						
		Standard 3	0.46	0.164						
		Standard 4	0.92	0.355						
		Standard 5								
		Standard 6								
Calibration verification CCV	S	0.276	0.3036			100	WR	Y		
Calibration verification										
Calibration verification										

Comments: Refer to Calibration Verification findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

CALCULC.6

LDC #: 1561566
SDG #: 744170

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Page: 1 of 1
Reviewer: MM
2nd Reviewer: AC

METHOD: Inorganics, Method 376.2

Percent recoveries (%R) for a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{\text{Found}}{\text{True}} \times 100$ Where, Found = concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result), True = concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

Sample ID	Type of Analysis	Element	Found / S (units)	True / D (units)	Recalculated		Reported		Acceptable (Y/N)
					%R / RPD		%R / RPD		
LC3	Laboratory control sample	S	0.440	0.460	96		96		Y
7441703 or	Matrix spike sample	↓	0.444 (SSR-SR)	0.460	97		97		Y
↓	Duplicate sample	↓	0.481	0.471	2		2		Y

Comments: Refer to appropriate worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

TOTCLC.6

